UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/586,909	01/08/2007 Noritaka Muraki		Q79714	1815	
23373 SUGHRUE MI	7590 11/28/200 ON, PLLC	EXAMINER			
2100 PENNSY	LVÁNIA AVENUE, N	HUBER, ROBERT T			
SUITE 800 WASHINGTO	N, DC 20037	ART UNIT	PAPER NUMBER		
			2892		
		MAIL DATE	DELIVERY MODE		
			11/28/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Ap	Application No. Applicant(s)						
		10	0/586,909		MURAKI ET AL.				
		Ex	aminer		Art Unit				
		RC	DBERT HUBER		2892				
The MAILING Period for Reply	G DATE of this commun	ication appears	s on the cover s	heet with the co	orrespondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)⊠ Responsive to	o communication(s) file	d on 06 Nove	mber 2008						
2a) This action is	` ,		ion is non-final						
/ —		<i>′</i> —			secution as to the	e merits is			
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims	·	·	•	,					
<u> </u>		nding in the an	polication						
	Claim(s) 1,5-17 and 19-22 is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
	5) Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,5-17 and 19-22</u> is/are rejected.								
·		ected.							
	is/are objected to.	tion and/or ala	ation requirem	ant					
o) Claim(s)	are subject to restric	tion and/or ele	ection requirem	ent.					
Application Papers									
9)☐ The specificat	ion is objected to by the	e Examiner.							
10)☐ The drawing(s	s) filed on is/are:	a)∏ accepte	ed or b)∏ obje	cted to by the E	xaminer.				
Applicant may	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority under 35 U.S.	C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
	's Patent Drawing Review (P Statement(s) (PTO/SB/08)	TO-948)	5) <u>P</u>	nterview Summary (aper No(s)/Mail Da lotice of Informal Pa tther:	te				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 6, 2008 has been entered.

Claim Objections

2. Claims 21 and 22 are objected to because of the following informalities: The claims recite "a minimum horizontal width of a metallic film having the Ohmic electrode is 10 μm or less". It is unclear and ambiguous what is meant by "having the Ohmic electrode". A best-deemed interpretation is made, and "a minimum horizontal width of a metallic film having the Ohmic electrode is 10 μm or less" is interpreted as "a minimum horizontal width of a metallic film comprising the Ohmic electrode is 10 μm or less". Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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4. Claims 1, 5 - 17, and 19 – 22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

5. The term "*low resistance*" in claim 1 is a relative term which renders the claim indefinite. The term "*low*" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. Any resistance value may be thought of as a "*low resistance*" compared to a higher value or some arbitrary standard. Claims 5 – 17 and 19 – 22 depend on claim 1.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 8. Claims 1, 5, 9 11, 16, 17 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada (US 6,608,330 B1, prior art of record) in view of Sasaoka (US 2003/0042496 A1, prior art of record).
 - a. Regarding claim 1, Yamada discloses a gallium nitride compound semiconductor light-emitting device (e.g. figure 1) comprising

a crystalline substrate (substrate 101);

a light-emitting of a quantum well structure layer (active layer 106) which is formed of a gallium nitride compound semiconductor barrier layer doped with an impurity element (layers 107, disclosed in col. 11, lines 7 – 8 to be formed of GaN, InGaN, AlGaN, or the like. AlGaN may be considered to be doped GaN) and a gallium nitride compound semiconductor well layer undoped with an impurity element (layers 108 and 109, disclosed in col. 10, lines 3 – 4 to be undoped), said light-emitting layer being provided on a second side of the crystalline substrate (e.g. as seen in figure 1);

a contact layer formed of a Group III-V compound semiconductor for providing an Ohmic electrode for supplying device operation current to the light-emitting layer (layer 111, formed from GaN as stated in col. 8, line 41); and

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an Ohmic electrode (electrode 112)) that is provided on the contact layer (e.g. as seen in figure 1) and has an aperture through which a portion of the contact layer is exposed (e.g. as seen in figure 1, the sides of electrode 112 are open, exposing the contact layer 111),

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wherein the Ohmic electrode exhibits light permeability with respect to light emitted from the light-emitting layer (col. 10, line 42 discloses the electrode 112 to be transparent), and the well layer contains a thick portion having a large thickness and a thin portion having a small thickness (e.g. col. 13, lines 16 - 36, with reference to figure 6, disclose that the well layers have both thin and thick regions)

wherein the well laver is partially not present (col. 13, lines 20 – 22 disclose that, with reference to figure 6, disclose that the well layers have regions with thickness less than half of the average thickness. Col. 9, lines 35 - 36 discloses the average thickness of a well layer to be 3 nm. Therefore, the regions defined by "D" in figure 6 of the well layers are less than 1.5 nm. Therefore, the well layer may be considered as partially not present in such regions with lower thicknesses than other regions)

Yamada is silent with respect to disclosing the barrier layer is a barrier layer which is doped with a Group IV element at an average atom density of 1 x 10^{17} cm⁻³ to 5 x 10^{18} cm⁻³ and which exhibits low resistance.

Sasaoka discloses a gallium nitride compound semiconductor lightemitting device with barrier layer being doped with a Group IV element at Application/Control Number: 10/586,909

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an average atom density of $1x10^{17}$ cm⁻³ to $5x10^{18}$ cm⁻³ which exhibits a low resistance (¶ [0109] discloses the barrier layer to be Si doped with a concentration of $1x10^{18}$ cm⁻³).

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Yamada such that the barrier layers are doped with a Group IV compound with a density of 1x10¹⁷ cm⁻³ to 5x10¹⁸cm⁻³ since it was known that gallium nitride compound light emitting devices can contain quantum well layers may comprise barrier layers with such dopant and concentrations, as disclosed by Sasaoka. A low resistance is the effect of the doping of the gallium nitride compound with a group VI element at the concentration specified by Sasaoka, so that the modification of the device of Yamada in view of Sasaoka will result in a barrier layer with a low resistance. See MPEP 2112.01. One would have been motivated to make the barrier layer with a dopant of Group IV materials since these would create an n-type semiconductor barrier layer, allowing one to control the conductivity of the barrier layer, resulting in a more efficient light emission properties of the quantum well.

b. Regarding claim 5, Yamada in view of Sasaoka further disclose a gallium nitride compound semiconductor light-emitting device, as cited above, wherein the predetermined impurity element added only to the barrier layer is silicon (Yamada: col. 10, lines 3 – 7, disclose that the layer 108

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may be doped with Silicon. Col. 9, line 62 discloses the layer 108 may be a barrier layer).

c. Regarding claim 9, Yamada in view of Sasaoka disclose a gallium nitride compound semiconductor light-emitting device according to claim 1, as cited above, however Yamada is silent with respect to the contact layer having a thickness of 1 μ m to 3 μ m, however Yamada discloses that the contact layer thickness is 0.25 μ m.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to enlarge the layer thickness of Yamada in view of Sasaoka, since it has been held by the courts that, where the only difference between the prior art and the claims was a recitation of relative dimensions of the claimed device, and a device having the claimed relative dimensions would not perform differently than the prior art device, the claimed device was not patentably distinct from the prior art device. *In Gardner v. TEC Systems, Inc.*, 725 F.2d 1338, 220 USPQ 777 (Fed. Cir. 1984), cert. denied, 469 U.S. 830, 225 USPQ 232 (1984). One would be motivated to make such a modification of the layer thickness in order to make the device structurally more rigid.

d. Regarding claim 10, Yamada in view of Sasaoka disclose a gallium nitride compound semiconductor light-emitting device according to claim 1, as cited above, wherein the Ohmic electrode (18) exhibits a

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transmittance at the wavelength of emitted light of 30% or higher (the structure of Yamada in view of Sasaoka are obvious over the structure of the claimed invention, therefore Yamada in view of Sasaoka are obvious over the properties of the light transmittance of the Ohmic electrode, since it has been held that when the prior art discloses the structure of the claimed invention, a prima facie case of anticipation or obviousness of the inherent properties has been established. See MPEP 2112.01.)

- e. Regarding claim 11, Yamada in view of Sasaoka further disclose a gallium nitride compound semiconductor light-emitting device according to claim 1, as cited above, wherein the Ohmic electrode has a thickness of 1 nm to 100 nm (Yamada: col. 10, lines 42 43, disclose the electrode has a thickness of 20 nm).
- f. Regarding claims 16 and 17, Yamada in view of Sasaoka further disclose a lamp and an LED employing the gallium nitride compound semiconductor light- emitting device according to claim 1 (Yamada: col. 11, lines 25 36).
- g. Regarding claim 19, Yamada in view of Sasaoka further disclose a gallium nitride compound semiconductor light-emitting device according to claim 1, as cited above, wherein the barrier layer is an Si-doped n-type GaN

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barrier layer (Sasaoka: ¶ [0109] discloses the Group IV doped GaN barrier layer to be Si doped n-type GaN).

- 9. Claims 6 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada in view Sasaoka, and in further view of Hanaoka et al. (US 5,804,839, prior art of record).
 - a. Regarding claim 6, Yamada in view of Sasaoka disclose a gallium nitride compound semiconductor light-emitting device according to claim 1, as cited above. However, Yamada and Sasaoka are silent with respect to the contact layer being doped with an n- type impurity element and has a carrier concentration of 5×10^{18} cm⁻³ to 2×10^{19} cm⁻³.

Hanaoka teaches that GaN layers may be formed with n-type impurity concentrations of 1 x 10¹⁹ cm⁻³ (col. 9, lines 20 - 23).

It would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the contact layer of Yamada in view Sasaoka to include n-type impurities with a concentration of 1 x 10¹⁹ cm⁻³ since Hanaoka discloses that this is known structure used for light emitting devices. One would have been motivated to make such a modification since it would allow the layer to exhibit light transmission properties, allowing the light to transmit readily through the layer, and desirable electrical properties for tuning the light emitting device.

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b. Regarding claims 7 and 8, Yamada in view of Sasaoka disclose a gallium nitride compound semiconductor light-emitting device according to claim 1, as cited above, wherein the contact layer is doped with a p - type impurity element (Yamada: col. 8, line 41). Yamada and Sasaoka are silent with respect to the layer having a carrier concentration of 1 x 10^{17} cm⁻³ to 1 x 10^{18} cm⁻³.

Hanaoka teaches that p-type contact layers may be doped with a carrier concentration of 1 x 10^{18} cm⁻³ (col. 3, lines 48 - 49).

It would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the contact layer of Yamada in view of Sasaoka to have a p-type impurity concentration of 1 x 10¹⁸ cm⁻³ since Hanaoka discloses that this is known contact layer structure used in light emitting devices. One would have been motivated to make such a modification since it would allow the layer to exhibit light transmission properties, allowing the light to transmit readily through the layer, and desirable electrical properties for tuning the light emitting device.

10. Claims 12, 13, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada in view of Sasaoka, and in further view of Morita et al. (US 6,121,636, prior art of record). Yamada in view of Sasaoka disclose a gallium nitride compound semiconductor light-emitting device according to claim 1, as cited above, however Yamada and Sasaoka are silent with respect to a multilayered

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metallic reflecting mirror made of the same material identical to the Ohmic electrode for reflecting light emitted from the light-emitting layer to the outside, which is provided on a first side of the crystalline substrate.

Morita discloses a mirror on the outside first side of the crystalline substrate (e.g. figure 1, reflecting layer 11) wherein the metallic reflecting mirror contains a metallic material identical to that contained in the Ohmic electrode (e.g. col. 4, lines 1 – 9, discloses that the layer may be made of gold, which is the same material as the electrode 9). Morita further discloses that the layers may be multilayered (col. 2, lines 21 - 25).

It would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the light emitting device of Yamada in view of Sasaoka to include the reflecting mirror, as taught by Morita, since Morita discloses that multilayer reflecting mirrors, made of the same material as the electrode, can be added to light emitting devices. One would be motivated to add a reflecting mirror on the second side of the substrate in order to prevent light escaping from the bottom of the device, thereby protecting underlying structures, as taught in Morita in col. 8, lines 33 - 44. One would be motivated to make the reflecting mirror multilayered to enhance it reflecting ability. One would further be motivated to make the mirror of the same material as that of the Ohmic electrode since it would require fewer materials for the production process.

11. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada in view of Sasaoka, and in further view of Kaneyama et al. (US 6,452,214 B2, prior art

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of record). Yamada in view of Sasaoka disclose a gallium nitride compound semiconductor light-emitting device according to claim 1, as cited above, however Yamada and Sasaoka are silent with respect to a metallic reflecting mirror containing a single-metal film or an alloy film formed from at least one member selected from the group consisting of silver, platinum, rhodium and aluminum.

Kaneyama teaches a metallic reflecting mirror formed from aluminum (col. 4, lines 32 - 35).

It would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the light emitting device of Yamada in view of Sasaoka to include the reflecting mirror, as taught by Kaneyama, since Kaneyama discloses that reflecting mirrors made of aluminum can be added to light emitting devices. One would be motivated to add an aluminum reflecting mirror on the second side of the substrate in order to prevent light escaping from the bottom of the device, thereby protecting underlying structures, and aluminum is a readily available material that is can be relatively easily deposited on substrates via known deposition methods (i.e. sputtering, evaporation, etc...)

12. Claims 20 – 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada in view of Sasaoka as applied to claim 1 above, and further in view of Lester (US 6,291,839 B1).

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a. Regarding claim 20, Yamada in view of Sasaoka disclose a gallium nitride compound semiconductor light-emitting device according to claim 1, but are silent with respect to apertures are formed such that a total surface area of the apertures accounts for 30% to 80% of a surface of the contact layer.

Lester discloses a gallium nitride compound semiconductor lightemitting device (e.g. figure 1), wherein apertures are formed in an Ohmic electrode (openings in p-type contact 20, as disclosed in col. 3, lines 1 - 3) such that a total surface area of the apertures accounts for 30% to 80% of a surface of the contact layer (as disclosed in col. 4, lines 34 - 35).

It would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the gallium nitride semiconductor light-emitting device of Yamada in view of Sasaoka such that the Ohmic electrode comprises a apertures with a total surface area of 30 - 80% of the surface of contact layer since Lester discloses a similar device with similar structure wherein apertures with such configurations may be formed. One would have been motivated to have apertures of such dimensions in order to optimize light transmittance from the device while providing an even Ohmic contact, as discussed by Lester (col. 3, lines 34 - 40).

b. Regarding claim 21, Yamada in view of Sasaoka disclose gallium nitride compound semiconductor light-emitting device according to claim

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1, wherein a metallic film comprises the Ohmic electrode (Yamada: col. 10, lines 42-43 disclose electrode 112 to be gold and nickel). Yamada in view of Sasaoka are silent with respect to a minimum horizontal width (lateral width) of the metallic film comprising the Ohmic electrode is 10 μ m or less, and a horizontal width of the aperture is 0.5 μ m to 50 μ m.

Lester discloses a gallium nitride compound semiconductor light-emitting device (e.g. figure 1), wherein a horizontal width of the aperture is 0.5 μm to 50 μm (e.g. figure 1 and col. 3, lines 1 -3 disclose that the Ohmic layer may comprise openings (apertures). Col. 3, lines 21 – 22 disclose the dimensions of the openings). Lester also discloses that a total surface area of the apertures accounts for 30% to 80% of a surface of the contact layer (as disclosed in col. 4, lines 34 - 35).

It would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the device of Yamada in view of Sasaoka such that the Ohmic electrode comprises apertures with a horizontal width of 0.5 μ m to 50 μ m since Lester discloses a similar device with an Ohmic layer comprising apertures of such dimensions. One would have been motivated to have the apertures of a width between 0.5 μ m to 50 μ m in order to maximize current flow in the Ohmic contact while optimizing the light transmittance through the apertures of the Ohmic layer, as discussed by Lester (col. 3, lines 5 – 22).

The combination of Yamada in view of Sasaoka with the teachings of Lester disclose a device that is obvious over the limitation of a minimum

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horizontal width (lateral width) of a metallic film comprising the Ohmic electrode is 10 μ m or less. Yamada discloses the device to have an area of 350 μ m square (col. 10, line 53), of which the Ohmic layer of Yamada in view of Sasaoka and Lester comprises a large portion (e.g. as seen in figures 1 of Yamada and Lester). Since Lester discloses the total surface area of the apertures to account for 20 - 80% of the surface area, and the dimensions of the apertures to be 0.5 – 20 μ m, one may do the calculations to find the average horizontal distance between the apertures to be about 0.4 μ m.

Although this calculation is done using an estimated contact layer size similar to the size of the area of device as disclosed by Yamada, and average homogeneous distribution of apertures within the Ohmic contact layer, a prima facie case of obviousness is established that a minimum horizontal width of the metallic film comprising the Ohmic electrode is $10~\mu m$ or less, and it has been held that when the prior art discloses the general conditions of the claimed invention, discovering the optimum or workable ranges involves only ordinary skill in the art. See MPEP 2144.05. One would have been motivated to have a minimum horizontal distance of the metallic film comprising the Ohmic electrode of $10~\mu m$ or less in order to optimize the current flow in the Ohmic contact while optimizing the light transmittance through the apertures of the Ohmic layer, as discussed by Lester (col. 3, lines 5-22).

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c. Regarding claim 22, Yamada in view of Sasaoka and in further view of Lester disclose a gallium nitride compound semiconductor light-emitting device according to claim 20, wherein a horizontal width of the aperture is 0.5 mm to 50 mm (Lester: col. 3, line 22).

Regarding the claim limitation "wherein a minimum horizontal width (lateral width) of a metallic film having the Ohmic electrode is 10 mm or less", the combination of Yamada in view of Sasaoka with the teachings of Lester disclose a device that is obvious over the limitation of a minimum horizontal width (lateral width) of a metallic film comprising the Ohmic electrode is 10 μ m or less. Yamada discloses the device to have an area of 350 μ m square (col. 10, line 53), of which the Ohmic layer of Yamada in view of Sasaoka and Lester comprises a large portion (e.g. as seen in figures 1 of Yamada and Lester). Since Lester discloses the total surface area of the apertures to account for 20 - 80% of the surface area, and the dimensions of the apertures to be 0.5 – 20 μ m, one may do the calculations to find the average horizontal distance between the apertures to be about 0.4 μ m.

Although this calculation is done using an estimated contact layer size similar to the size of the area of device as disclosed by Yamada, and average homogeneous distribution of apertures within the Ohmic contact layer, a prima facie case of obviousness is established that a minimum horizontal width of the metallic film comprising the Ohmic electrode is 10 μ m or less, and it has been held that when the prior art discloses the general conditions of the claimed

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invention, discovering the optimum or workable ranges involves only ordinary skill in the art. See MPEP 2144.05. One would have been motivated to have a minimum horizontal distance of the metallic film comprising the Ohmic electrode of 10 μ m or less in order to optimize the current flow in the Ohmic contact while optimizing the light transmittance through the apertures of the Ohmic layer, as discussed by Lester (col. 3, lines 5 – 22).

Response to Arguments

13. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection. With respect to the Applicant's argument that Yamada does not disclose the well layer that is not partially present, Yamada discloses that the well-layers may comprise regions of smaller thickness than regions of larger thickness. The absence of the thickness of the well layer in the smaller thickness regions may be regarded as a region in which the well layer is not partially present.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT HUBER whose telephone number is (571)270-3899. The examiner can normally be reached on Monday - Thursday (9am - 6pm EST).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thao Le can be reached on (571) 272-1708. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Lex Malsawma/ Primary Examiner, Art Unit 2892

/Robert Huber/ Examiner, Art Unit 2892 November 25, 2008